PATENT COOPERATION TREATY

ONAL SEARCHING ALTHORITY



PCT

To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43*bis*.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No. PCT/US2004/000555

International filing date (day/month/year)

Priority date (day/month/year)

10.01.2004

10.01.2003

International Patent Classification (IPC) or both national classification and IPC

B05B5/00

Applicant

From the

BATTELLE MEMORIAL INSTITUTE

1.	This opinion	contains	indications	relating to	the	following	items:
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Box No. I Basis of the opinion

Box No. II Priority

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Box No. IV Lack of unity of invention

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability, citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

Box No. VII Certain defects in the international application

Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66 1bs(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

<u>)</u>

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

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	D 11	- 1	Desired Manager 1		
_	Box N	0. I	Basis of the opinion		
	With re	egaro Iguaç	to the language, this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.		
	la	ngua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).		
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:				
		a s	equence listing		
		tab	le(s) related to the sequence listing		
	b. form	nat o	f material:		
		in v	vritten format		
		in c	computer readable form		
	c. time	of fi	ling/furnishing:		
		cor	ntained in the international application as filed.		
		file	d together with the international application in computer readable form.		
		furi	nished subsequently to this Authority for the purposes of search.		
3.	ha CC	as be opies	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.		
4.	Additio	onal	comments:		

see separate sheet

	Box	No. II	Priority				
	ВОХ		· · · · · · · · · · · · · · · · · · ·				
1.	☐ The following document has not been furnished:						
		☒	copy of the earlier a	pplication	n whose prio	rity has been claimed (Rule 43bis.1 and 66.7(a)).	
			translation of the ea	ırlier appl	ication whos	e priority has been claimed (Rule 43bis.1 and 66.7(b)).	
		Consec neverth	quently it has not bed eless been establisl	en possib hed on th	le to conside e assumptio	er the validity of the priority claim. This opinion has n that the relevant date is the claimed priority date.	
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	3. Additional observations, if necessary:						
		c No. V ustrial a	Reasoned statem applicability; citation	nent und ons and e	er Rule 43 <i>b</i> explanations	is.1(a)(i) with regard to novelty, inventive step or supporting such statement	
1.	Stat	tement					
	Nov	elty (N)		Yes: No:	Claims Claims	1,25,28	
	Inve	entive st	ep (IS)	Yes:	Claims		
				No:	Claims	30,34	
	Indi	ustrial a	oplicability (IA)	Yes: No:	Claims Claims	1-35	
2.	Cita	ations ar	nd explanations				

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Re Item V.

1 The following documents are referred to in this communication:

D1: WO 02/055211 A D2: US 5 865 551 A D3: US 4 749 125 A D4: US 5 531 384 A D5: DE 195 22 754 A

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Documents D1-D4 discloses all features of the very broad claims 1, 25, 28: A fluid container suitable for an electro hydrodynamic spray device, wherein said container comprises one reservoir configured to hold a sprayable liquid, one interface in fluid communication with said reservoir, one manifold comprising one fluid path in fluid communication with said interface, and one nozzle comprising one spray site, said spray site in fluid communication with said fluid path; and said device is configured to engage said container.

Claims 30 and 34 does not seem to involve an inventive step.

2.2 Although claims 1 and 25 and 28 (same for claim 30 and 34) have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

The number of claims must be reasonable when considered in relation to the nature of the invention claimed, and undue repetition of wording, for example between one claim and another, should be avoided by the use of the dependent form regarding independent claims in the same category (see also PCT Rule

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6.1(a))

In order to overcome this objection, it would appear appropriate to file an amended set of claims defining the relevant subject-matter in terms of a minimum number of independent claims in each category followed by dependent claims covering features which are merely optional (Rule 6.4 PCT).

- 2.4 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 2.5 Independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art being placed in the preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- 2.6 Independent claims should therefore be redrafted accordingly. If, however, the applicant is of the opinion that the two-part form would be inappropriate, then reasons therefor should be provided in the letter of reply. In addition, the applicant should ensure that it is clear from the description which features of the subject-matter of claims are already known in combination from the cited documents (see the PCT Guidelines, III-2.3a).
- 2.7 Claims 3-18 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter, here the fluid container, via the liquid contained therein instead of technical features.